

A checklist of the opisthobranch molluscs of Fiji

Gilianne D. Brodie* and Jon E. Brodie†

Institute of Natural Resources, University of the South Pacific, Suva, Fiji

*Current address: Biological Sciences, James Cook University of North Queensland, Townsville, 4811.

†Current address: Great Barrier Reef Marine Parks Authority, P.O. Box 1378, Townsville, 4810.

ABSTRACT

A simple checklist of the opisthobranch molluscs recorded from Fiji is presented and contains 253 species. Only six of the nine opisthobranch orders are included — Cephalaspidea (43 species), Entomotaeniata (6), Anaspidea (6), Notaspidea (7), Sacoglossa (29) and Nudibranchia (162). A brief comparison of these groups with northeastern Australia highlights two main points: the potential for new records from Fiji and the large number of still unidentified species already found.

INTRODUCTION

The islands of the Fiji Group are located between latitude 12° to 20° South and longitude 176° East to 178° West. The group consists of over 360 islands which are surrounded by a maze of reefs. The prevailing winds are southeast trades and the surface current flows south-westerly. Precipitation is high, being up to 3000 mm in the southeast of the largest island, Viti Levu; within the group it varies with land form (Haynes, 1985). Water temperature is always above 20°C, with a summer ocean surface maximum of about 30°C and a mean annual variation of about 6°C. Neap tides have a mean range of 0.9 m and springs 1.30 m. Tides are semidiurnal with the lowest springs falling during the night in summer (November-January) but during the day in winter (June-August) (Ryland, 1981a; 1981b).

The estimation of diversity of opisthobranch molluscs in Fiji has, until recently, only been based on relatively short collecting trips by overseas specialists (e.g. M.C. Miller in May 1968, W.B. Rudman in April 1971, M.P. Morse from September 1978 to May 1979, R.C. Willan in July 1987), and enthusiastic collection by resident biologists concentrating on other reef species (e.g. B. Carlson 1972-1976). The exception is the shelled opisthobranchs which were studied by W.O. Cernohorsky during his residence in Fiji.

Although these collections have contributed, in varying degrees, to some interesting publications (Eliot & Evans, 1908; Burn, 1966; Miller, 1969; Er. Marcus

& Ev. Marcus, 1970; Rudman, 1971, 1973a, 1973b, 1974, 1977, 1978, 1982, 1983, 1984, 1985, 1986a, 1986b; Cernohorsky, 1972, 1977; Willan, 1984, 1988), until now, no checklist of the opisthobranch molluscs found in Fiji has been compiled. A large number of the species recorded in this list were found by the present authors during the period December 1983 to January 1988. The resulting collection of preserved material, which has already led to some publications (Thompson & Brodie, 1988; Willan & Brodie, 1989), is presently being lodged with the Queensland Museum (North Queensland Branch), Townsville, Australia.

CLASSIFICATION

Phylum	: MOLLUSCA
Class	: GASTROPODA
Subclass	: OPISTHOBRANCHIA
Orders	: Cephalaspidea (Bubble shells)
	: Entomotaeniata (Pyramidellids)
	: Thecosomata (Sea butterflies)
	: Gymnosomata (Naked sea butterflies)
	: Anaspidea (Sea hares)
	: Notaspidea (Side-gilled sea slugs)
	: Acochlidiacea (Caddis slugs)
	: Sacoglossa (Sap-sucking sea slugs)
	: Nudibranchia (Nudibranchs)

Only six of the above nine opisthobranch orders will be covered by this checklist, namely Cephalaspidea, Entomotaeniata, Anaspidea, Notaspidea, Sacoglossa and Nudibranchia. One unidentified member of the acochlidiacean genus *Acochlidium* has been found in a freshwater habitat by Dr Alison Haynes of the University of the South Pacific (Haynes, 1988). Four other members of this order, including the genera *Hedylopsis* and *Microhedyle*, have reportedly been found in an interstitial marine environment (Morse, 1979, 1980, 1981). No other members of this group are known to the authors from Fiji. The two remaining orders, Gymnosomata and Thecosomata, both contain only pelagic species and will not be dealt with here.

Order Cephalaspidea (=Bullomorpha)

Family Acteonidae

- Acteon variegatus* (Bruguère, 1789)
- Acteon virgatus* (Reeve, 1842)
- Bullina lineata* (Gray, 1825)
- Pupa alveola* (Souverbie, 1863)
- Pupa nitidula* (Lamarck, 1816)
- Pupa solidula* (Linnaeus, 1758)
- Pupa sulcata* (Gmelin, 1791)

Family Aglajidae

- Aglaja orientalis* Baba, 1949
- Aglaja gardineri* (Eliot, 1903) = *Philinopsis gardineri*; in Rudman, 1972
- Chelidonura hirundinina* (Quoy & Gaimard, 1832)
- Chelidonura inornata* Baba, 1949
- Chelidonura varians* Eliot, 1903
- Chelidonura pallida* Risbec, 1951
- Chelidonura* cf. *sandrana* Rudman, 1973

Philinopsis cyanea (Martens, 1879)

Philinopsis pilsbryi (Eliot, 1900)

Family Haminoecidae

Atys naucum (Linnaeus, 1758)

Atys cylindrica (Helbling, 1779)

Atys cf. *cylindrica* (Helbling, 1779)

Atys sp. (1)

Haminoea cymbalum (Quoy & Gaimard, 1835)

Haminoea aff. *cymbalum* (Quoy & Gaimard, 1835)

Haminoea galba Pease, 1861

Haminoea cf. *galba* Pease, 1861

Haminoea sp. (1)

Liloa curta (A. Adams in Sowerby, 1850)

Phanerophthalmus smaragdinus (Rüppell & Leuckart, 1828)

Family Philinidae

Philine orca Gosliner, 1988

Philine rubrata Gosliner, 1988

Family Bullidae

Bulla ampulla Linnaeus, 1758

Bulla vernicosa Gould, 1859

Bulla punctulata A. Adams in Sowerby, 1850

Family Cylichnidae

Tornataiha decorata Pilsbry, 1904

= *Bulla voluta* (Quoy and Gaimard, 1833); in Cernohorsky, 1977

= *Bulla voluta* Gmelin, 1791; in Cernohorsky, 1977

= *Tornatina gaimardi* Finlay, 1927; in Cernohorsky, 1977

Family Diaphanidae

Colpodaspis thompsoni Brown, 1979

Family Gastropteridae

Gastropteron flavum Tokioka & Baba, 1964

Gastropteron sp. (1)

Sagaminopteron nigropunctatum Carlson & Hoff, 1973

Sagaminopteron psychedelicum Carlson & Hoff, 1974

Family Hydatinidae

Aplustrum amplustre (Linnaeus, 1758) = *Hydatina amplustre*; in Bertsch & Johnson, 1981

Hydatina physis (Linnaeus, 1758)

Micromelo undatus (Bruguère, 1792) = *Micromelo guamensis* (Quoy & Gaimard, 1825); in Bersch & Johnson, 1981.

Family Runcinidae

Runcina fijiensis Thompson & Brodie, 1988

Runcina marshae Burn, 1966

Order Entomotaeniata (= Pyramidellomorpha)

Family Pyramidellidae

Otopleura nodicincta (A. Adams, 1855)

Otopleura mitralis (A. Adams, 1855)

Pyramidella dolabrata (Linnaeus, 1758)

Pyramidella terebellum (Müller, 1774)

Pyramidella acus (Gmelin, 1791)

Pyramidella sulcata (A. Adams, 1855)

Order Anaspidea (=Aplysiomorpha)

Family Aplysiidae

Aplysia dactylomela Rang, 1828

Aplysia parvula Guilding in Mörch, 1863

Dolabella auricularia (Lightfoot, 1786)

Dolabrifera dolabrifera (Cuvier, 1817)

Notarchus indicus Schweigger, 1820

Stylocheilus longicauda (Quoy & Gaimard, 1824)

= ? *Stylocheilus risbeci*; in Morse, 1979

Order Notaspidea (=Pleurobranchomorpha)

Family Umbraculidae

Umbraculum umbraculum (Lightfoot, 1786) = *Umbraculum sinicum* (Gmelin, 1791); in Thompson, 1970

Family Pleurobranchidae

Berthella martensi (Pilsbry, 1896)

Berthella stellata (Risso, 1818) = *Berthella pellucida* (Pease, 1860); in Willan, 1984

Berthellina citrina (Rüppell & Leuckart, 1828)

Pleurobranchus albiguttatus (Bergh, 1905)

Pleurobranchus forskali Rüppell & Leuckart, 1828

Pleurobranchus grandis Pease, 1868

Order Sacoglossa (=Pellibranchiata)

Order Sacoglossa (= Pellibranchiata, Monostichoglossa, = Ascoglossa).

Family Volvatellidae (= Cylindrobullidae)

Volvatella ficula Burn, 1966

Volvatella sp. (1)

Family Oxynoidae

Oxynce viridis (Pease, 1863)

Oxynoe cf. *viridis* (Pease, 1863)

Family Lobigeridae

Lobiga viridis (Pease, 1863)

Family Juliidae

Julia exquisita Gould, 1862

Family Bertheliniidae

Tarnanovala fijiensis Burn, 1966

Family Elysiidae

Elysia bayeri Er. Marcus, 1965 = *Elysia ratna* Er. Marcus, 1965

Elysia bennettiae Thompson, 1973

Elysia aff. *bennettiae* Thompson, 1973

Elysia grandifolia Kelaart, 1859

Elysia gracilis Risbec, 1928
Elysia livida Baba, 1955
Elysia aff. *livida* Baba, 1955
Elysia marginata (Pease, 1871)
Elysia ornata Swainson, 1840
Elysia rufescens (Pease, 1871)
Elysia vatae Risbec, 1928
Elysia yaeyamana Baba, 1937
Elysia cf. *caerulea* Kelaart, 1859
Elysia sp. (1)
Elysia sp. (2)
Placobranchus ocellatus Hasselt, 1824

Family Hermaeidae

Hermaea cf. *dendritica* (Alder & Hancock, 1843)
Stiliger sp.(1)

Family Caliphyllidae

Cyerce aff. *nigricans* (Pease 1866) = *Cyerce nigra*; in George & George, 1979
Cyerce elegans Bergh, 1871
Cyerce sp. (1)
Phyllobranchillus orientalis (Kelaart, 1858)

Order Nudibranchia

SUPERFAMILY DORIDOIDEA

Family Hexabranchidae

Hexabranchus sanguineus (Rüppell & Leuckart, 1828)

Family Polyceridae

Kaloplocamus yatesi (Angas, 1864)
Plocamophorus cf. *ceylonicus* (Kelaart, 1858)
Nembrotha lineolata Bergh, 1905
Roboastra gracilis (Bergh, 1905)
Tambja affinis (Eliot, 1904)
Tambja morosa (Bergh, 1877)
Tambja cf. *oliva* Meyer, 1977
Tambja sp. (1)
Polycera sp. (1)

Family Aegiridae

Aegires citrinus Pruvot-Fol, 1930
Aegires villosus Farran, 1905

Family Gymnodorididae

Gymnodoris cf. *bicolor* (Alder & Hancock, 1864)
Gymnodoris ceylonica (Kelaart, 1858)
Gymnodoris aurita (Gould, 1852)
Gymnodoris sp. (1)
Gymnodoris sp. (2)
Gymnodoris sp. (3)
Gymnodoris sp. (4)
Gymnodoris sp. (5)
Gymnodoris sp. (6) = *Gymnodoris* sp.; No.28 in Willan & Coleman, 1984

- Gymnodoris* sp. (7)
- Gymnodoris* sp. (8)
- Gymnodoris* sp. (9)
- Gymnodoris* sp. (10)

Family Okeniidae

- Trapania* sp. (1)
- Goniodoris* sp. (1)
- Okenia* sp. (1)

Family Dorididae

- Doris spiraculata* Gould, 1852
- Aldisa pikokai* Bertsch & Johnson, 1981
- Alloiodoris* sp. (1)
- Asteronotus cespitosus* (Hasselt, 1824) = *Doris cerabralis* Gould, 1852
- Atagema* sp. (1)
- Discodoris boholiensis* (Bergh, 1877)
- Discodoris concinna* (Alder & Hancock, 1864)
- Discodoris* cf. *concinna* (Alder & Hancock, 1864)
- Discodoris fragilis* (Alder & Hancock, 1864)
- Doriopsis granulosa* Pease, 1860
- Doriopsis viridis* Pease, 1861
- Halgerda carlsoni* Rudman, 1978
- Halgerda aurantiomaculata* (Allan, 1932)
- Halgerda* sp. (1)
- Hoplodoris nodulosa* (Angas, 1864)
- Jorunna funebris* (Kelaart, 1858)
- Jorunna* sp. (1)
- Jorunna* sp. (2)
- Jorunna* sp. (3)
- Jorunna* sp. (4)
- Platydoris cruenta* (Quoy & Gaimard, 1832)
- Platydoris formosa* (Alder & Hancock, 1864)
- Platydoris radiata* (Hassell, 1824)
- Platydoris scabra* (Cuvier, 1804)
- Sebadoris nubilosa* (Pease, 1871)
- Sclerodoris apiculata* (Alder & Hancock, 1864)
- Sclerodoris* sp. (1)
- Sclerodoris* sp. (2)
- Sclerodoris* sp. (3)
- Sclerodoris* sp. (4)
- Thordisa* sp. (1)
- Trippa intecta* (Kelaart, 1858)
- Trippa spongiosa* (Kelaart, 1858)
- Trippa* aff. *spongiosa* (Kelaart, 1858)
- Trippa* sp. (1)

Family Actinocyclusidae

- Actinocyclus japonicus* (Eliot, 1913)
- Hallaxa* sp. (1)
- Hallaxa* sp. (2)

Family Chromodorididae

- Cadlinella ornatissima* (Risbec, 1928)
Chromodoris aspersa (Gould, 1852) = *Chromodoris inornata* Pease, 1871; in Willan & Coleman, 1984
Chromodoris cf. *aureopurpurea* Collingwood, 1881
Chromodoris bimaensis (Bergh, 1905)
Chromodoris bullocki Collingwood, 1881
Chromodoris coi (Risbec, 1956)
Chromodoris colemani Rudman, 1982
Chromodoris decora (Pease, 1860)
Chromodoris elizabethina Bergh, 1877
Chromodoris fidelis (Kelaart, 1858)
Chromodoris geometrica Risbec, 1928
Chromodoris lochi Rudman, 1982
Chromodoris preciosa (Kelaart, 1858)
Chromodoris cf. *imperialis* (Pease, 1868)
Chromodoris sp. (1)
Durvillerodis lemniscata (Quoy & Gaimard, 1832)
Glossodoris atromarginata (Cuvier, 1804) = *Casella atromarginata* (Cuvier); in Thompson, 1972
Glossodoris carlsoni Rudman, 1986
Glossodoris cincta (Bergh, 1888)
Glossodoris hikuerensis (Pruvot-fol, 1954)
Glossodoris pallida (Ruppell & Leuckart, 1828)
Glossodoris rufomarginata (Bergh, 1890) = *Chromodoris youngbleuthi* Kay & Young, 1969; in Rudman, 1973a = *Chromolaichma youngbleuthi* Kay & Young; in Bertsch & Johnson, 1981
Glossodoris sibogae (Bergh, 1905)
Ardeadoris scottjohnsoni Bertsch & Gosliner, 1989
Hypselodoris obscura (Stimpson, 1855)
Hypselodoris maculosa Pease, 1871 = *Chromodoris decorata* Risbec, 1928; in Willan & Coleman, 1984 = *Hypselodoris decorata*; in Rudman, 1984
Hypselodoris cf. *nigrostriata* (Eliot, 1904)
Miamira sinuata (Hasselt, 1824)
Noumea purpurea Baba, 1949 = *Noumea norba* Er. Marcus & Ev. Marcus, 1970; in Er. Marcus & Ev. Marcus, 1970
Noumea romeri Risbec, 1928
Noumea flava (Eliot, 1904)
Noumea varians (Pease, 1871)
Pectenodoris trilineata (A. Adams & Reeve, 1850) = *Chromodoris virgata* Bergh, 1905; in Willan & Coleman, 1984

Family Dendrodorididae

- Dendrodoris albobrunnea* Allan, 1933
Dendrodoris denisoni (Angas, 1864)
Dendrodoris nigra (Stimpson, 1855)
Dendrodoris tuberculosa (Quoy & Gaimard, 1832)
Dendrodoris sp. (1)

Family Phyllidiidae

- Phyllidia coelestis* Bergh, 1905
Phyllidia elegans Bergh, 1869

- Phyllidia loricata* Bergh, 1863
- Phyllidia nobilis* Bergh, 1869
- Phyllidia ocellata* Cuvier, 1804
- Phyllidia pustulosa* Cuvier, 1804
- Phyllidia varicosa* Lamarck, 1801
- Phyllidia* cf. *annulata* Gray, 1853
- Phyllidia* sp. (1)
- Phyllidiopsis striata* Bergh, 1888
- Phyllidiopsis cardinalis* Bergh, 1876
- Fryeria rueppelii* (Bergh, 1869)
- Fryeria* sp. (1)

SUPERFAMILY AEOLIDOIDEA

Family Flabellinidae

- Flabellina alisonae* Gosliner, 1980
- Flabellina rubrolineata* (O'Donoghue, 1929)
- Flabellina* aff. *macassarana* Bergh, 1905
- Flabellina* aff. *poenicia* (Burn, 1957)

Family Eubranchidae

- Eubranchus* sp. (1)

Family Aeolidiidae

- Aeolidiella indica* Bergh, 1888 = *Aeolidiella takanosimensis* Baba, 1930; in Bertsch & Johnson, 1981
- Aeolidiella* sp. (1)
- Aeolidiella* sp. (2)
- Aeolidiella* sp. (3)
- Aeolidiella* sp. (4)
- Aeolidiella* sp. (5)
- Berghia amakusana* (Baba, 1937) = *Spurilla amakusana*; in Willan & Coleman, 1984
- Cerberilla annulata* (Quoy & Gaimard, 1832)

Family Glaucidae

- Glaucus atlanticus* Forster, 1777

Family Facelinidae

- Favorinus japonicus* Baba, 1949
- Hervilla* cf. *claror* Burn, 1963
- Palisa* sp. (1)
- Phidiana bourailli* (Risbec, 1928)
- Phidiana indica* (Bergh, 1896)
- Phidiana militaris* (Alder & Hancock, 1864)
- Phidiana* aff. *indica* (Bergh, 1896)
- Phidiana* sp. (1)
- Phidiana* sp. (2)
- Phyllodesmium* sp. (1)
- Pteraeolidia ianthina* (Angas, 1864)
- Sakuraeolis* sp. (1)

Family Teregepedididae

- Cuthona* sp. (1)
- Phestilla melanobranchia* Bergh, 1874

Phestilla lugubris (Bergh, 1870) = *Phestilla sibogae* Bergh, 1905; in Bertsch & Johnson, 1981

Phestilla minor Rudman, 1981

SUPERFAMILY ARMINOIDEA

Family Arminidae

Dermatobranchus fortunata (Bergh, 1888)

Dermatobranchus sp. (1)

Dermatobranchus sp. (2)

Family Doridomorphidae

Doridomorpha gardineri Eliot, 1906

SUPERFAMILY DENDRONOTOIDEA

Family Tritoniidae

Marionia cyanobranchiata (Rüppell & Leuckart, 1831)

Marionia sp. (1)

Tritoniopsis alba (Baba, 1949)

Tritonia sp. (1)

Marianina rosea (Pruvot-Fol, 1930)

Family Lomanotidae

Lomanotus vermiformis Eliot, 1908

Family Bornellidae

Bornella stellifer (A. Adams & Reeve, 1848) = *Bornella adamsii* J.E. Gray in M.E. Gray, 1850; in Willan & Coleman, 1984 = *Bornella digitata* Adams & Reeve, 1850

Bornella sp. (1)

Family Embletoniidae

Embletonia gracile Risbec, 1928

Family Tethydidae

Melibe cf. *pilosa* Pease, 1860

Melibe sp. (1)

DISCUSSION

The opisthobranch fauna of Fiji is obviously rich and diverse. The 253 species recorded in this checklist are separated into orders as follows: Cephalaspidea, 43; Entomotaeniata, 6; Anaspidea, 6; Notaspidea, 7; Sacoglossa, 29; Nudibranchia, 162. In comparison, the opisthobranch fauna of Queensland, Australia, has almost 400 identifiable species (according to R. Willan's unpublished catalogue) which are divided as follows: Cephalaspidea, 84; Anaspidea, 14; Notaspidea, 12; Sacoglossa, 20; Nudibranchia, 217.

The orders Anaspidea, Cephalaspidea and Notaspidea all show approximately half as many species in Fiji as in Queensland. The order Nudibranchia shows 55 less species in Fiji than in Queensland and interestingly, the order Sacoglossa shows nine more species in Fiji than in Queensland. It should be remembered that quite a number of Fijian representatives in all sections are not yet fully identified to species level.

The largest family in Queensland is easily the Chromodorididae with 71 species. Only 33 members of this group are presently recorded from Fiji. The largest Fijian

family is the Dorididae with 35 species. Queensland shows only 29 identified species in this group which again highlights the number of unidentified Fijian species.

Considering the differences in observation and collection time between the two areas, there are undoubtedly many additional species yet to be found in Fiji.

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